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Ophthalmic Literature

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Edited by EDWARD JACKSON. Assisted by WILLIAM H. CRISP.

BOOKS OF REFERENCE.

Any book so carefully read that both its contents and method of arrangement are mastered can be readily used as a book of reference if its system of arrangement is remembered. But the number of books with which one reader can become thoroughly familiar is quite limited. The student who would extend his knowledge more widely and bring together facts not hitherto collected must have other resources. He can do little without indexes, dictionaries, and the ever growing class of books for reference.

To gain a first general view of ophthalmology by reading, one does best to study a good text-book carefully from cover to cover. Later a similar book by a different author may be taken and read in the same way. But every time this process is repeated it becomes less and less profitable. To master and command the information he obtains from books, each student must develop his own individual arrangement and association of knowledge. When this has been done the most profitable method of study is, not to confuse his system of arrangement and association of the facts by the systems developed by others; but to strengthen his own association of ideas by the wise use of books of reference.

If one wishes to master the subject of uveal tuberculosis, he will hunt out and read what has been written by different authors on this subject. This reading will be most profitable and done with the best economy of effort, if the reader can bring together those passages which refer to one special phase of the subject, as to the ophthalmoscopic symptoms of the condition; or at another time those dealing with the pathology; or at still another time the results of tuberculin treatment. If one has a case of prolapse of the iris following cataract extraction, he does not wish to read up all that one author has written on the general subject of cataract extraction, but to bring together from different sources the best accounts of this particular complication. To this end each available account of the subject may be examined, and the sentences bearing on the particular point, selected for careful reading and consideration. It is in this way that most of us come to use our medical libraries after we enter upon professional practice.

To a certain extent any book may be used in this way. It is comparatively easy to refer to the particular passage desired, in the book that we have thoroughly studied to get our first acquaintance with the subject. On this account it has been recommended that the student should, in the first place, purchase the most complete standard text-book he can get. So that after it has been read it may

always remain a valuable work of reference. But one cannot gain this kind of familiarity with more than a few text-books.

The different systematic works on ophthalmology are most of them arranged upon the same general plan; so that the reader familiar with one will be aided in hunting out what he wants in another. But he can never do it quite so readily in a work that is less familiar, as he could in the one he first mastered; and often there are differences of arrangement and classification that make a new book quite a puzzle.

To meet this difficulty every book that can be of value as a work of reference should be furnished with a good index. The alphabetical arrangement is one which every reader has at command. If the index be a good one—the reference being found by the words for which the reader naturally looks—the value of the work as a book of reference becomes greatly enhanced. Indeed, its reference value is often directly proportioned to the excellence of the index. By the aid of a good index any book can easily be used as a work of reference; without an index the labor of finding the particular matter that would be useful soon becomes prohibitive.

It is coming to be more and more recognized that there is a wide field of usefulness for works written and arranged primarily for books of reference. These works generally fall into the class of dictionaries and encyclopedias. Their essential peculiarity is that the matter they contain is analyzed, separated, each paragraph or article dealing with a particular topic; and then these paragraphs or articles are arranged on a system that any one can understand, usually the alphabetical arrangement. A good work written and arranged on this plan is the ideal book for reference.

The encyclopedia, in the form which the word now suggests, came into existence less than two hundred years ago. The use and popularity of such reference works has enormously extended in the last generation. A general encyclopedia, or encyclopedic dictionary, is the first requirement of each library, school, social club, or important professional office.

The general encyclopedia is being followed by special works that claim the name, but make no attempt to embrace the whole circle of the sciences. The latter undertake to give all the information relating to a special subject presented after the manner of an encyclopedia, in short articles or paragraphs alphabetically arranged. The system of arrangement, or the thoroughness or completeness within its chosen field, gives a work the best title to the name encyclopedia, as the word is now used. To indicate that the whole field of knowledge is to be embraced additional titles, such as "universal," have been added; while encyclopedias of medicine, electricity, economics, theology, etc., are coming into existence to render readily accessible the various special departments of human information and thought.

In the midst of this active production of reference books of the best type, it would have been strange if ophthalmology had been long neglected. In the past there have been ambitious and highly successful attempts to cover the whole field of ophthalmology in one

massive work, as the Graefe-Saemisch Handbuch der Augenheilkunde, and The System of Diseases of the Eye, edited by Norris and Oliver. One of the most important of these works has been called the Encyclopédie Française d'Ophtalmologie. But none of them uses the encyclopedia system of short articles on limited topics, and alphabetic arrangement.

This truly encyclopedic character is what constitutes the novelty and the significance of the American Encyclopedia of Ophthalmology now appearing. Those who have compared it with the older systems, which are huge collections of monographs, independent, massive, each exhaustive of a considerable field in ophthalmology, have missed this radical difference. To compare the individual articles in the old "systems" with those of the new "encyclopedia" is absurd, and makes the latter appear defective.

But the chief value of any of these works is as a work of reference; and as such the newer method of division and arrangement will prove vastly more convenient. The old "system" may constitute a proud monument to the knowledge and industry of its writers, and the willingness of its owner to buy the greatest of books on ophthalmology. It waits in stately retirement the coming of the individual scholar who can appreciate and enjoy its excellence. The new encyclopedia is a convenient and immensely valuable tool to be kept close at hand, and used every day. The wider and more definite appreciation of the function and value of works of reference, will steadily increase their popularity, and the extent of the service that the latest and best types of them will render to ophthalmologists.

TREPHINE OR TREPAN.

The point has just been raised that the operation done at the sclero-corneal junction should be called trepanning, or trepannation, because the instrument used does not contain a center-pin. It may be admitted that "trepanning" is the older term, and that trephining came into use to designate a tubular instrument with a saw edge, that had a center-pin, and was smaller than the instrument previously used for the purpose of making an opening in the cranium or other bone. Probably the most important difference recognized by the new term was that the instrument indicated was smaller than its predecessor. Trephine was a diminutive for trepan. Johnson's dictionary gave: "Trephine, a small trepan."

However this may be, Bowman called his instrument a trephine. De Wecker, who suggested the first mechanical trephine, did the same. The instrument used on the eye differs from a bone instrument in having a knife instead of a saw edge. On the whole, there seems little reason to discard the word "trephine" in favor of "trepan"; since the former was the term first applied to the instrument used in ophthalmology, and since it is pre-eminently diminutive as compared with all the bone instruments.

In general trephine and trepan are used as synonyms. Foster's Encyclopedic Medical Dictionary makes no distinction. It is an in-

stance, of which there are so many in the history of language, of one word supplanting another. The original projectors of the great English dictionary, edited by Dr. Johnson, expected that it would fix once for all the legitimate meaning of each word in the language. The makers of modern dictionaries have given up any such idea, and are content to devote their energies to ascertaining and explaining the best usages as determined by contemporary custom.

BOOK REVIEWS.

The American Encyclopedia and Dictionary of Ophthalmology, Edited by **Casey A. Wood,** Chicago, assisted by a large staff of collaborators. Volume II, 776 pages. Fully illustrated. Chicago, Cleveland Press, 1913. Price, $6.00 per volume.

This volume carries the work from the letter "B" to "Cataract, Incipient." Its paging, continuing with that of the first volume, brings it to 1506. In the preparation and issuing of such a work delays are almost inevitable, and the slight one in the case of this volume seems amply compensated by the extent of research that has gone to its preparation.

There is still need to call attention to its general character. Among the notices of it that have appeared in ophthalmic journals, none seems to show appreciation of its radical difference from all other works on ophthalmology that have appeared in the English language. To compare its brief paragraphs with the extended monographs that make up the System of Diseases of the Eye, by Norris and Oliver, or the similar systems in French or German, is certain to do injustice to this work, cast in a different form.

This will be especially true until the whole ten volumes are before us. For instance, in Norris and Oliver's "System" is Landolt's monograph of 165 pages on "Anomalies of the Motor Apparatus of the Eyes." If one should compare with that monograph, the page in this work on "Balance of the Extra-ocular Muscles," or the 16 pages under "Binocular" referring to binocular diplopia, fixation, field, movements, etc. (21 titles in all), the comparison would be strongly in favor of the Landolt monograph. Yet when the Encyclopedia is complete it will probably contain twice as much matter on the subject as the monograph; and its arrangement under separate topic heads will make it immensely more accessible for reference. Such a comparison, article for article, is absurd. But it is the basis of most of the unfavorable criticism that we have heard offered. Because this was to be expected, we protested against criticism of an unfinished work in our notice of the first volume. For the relative completeness with which the field is covered, no comparisons are in order until at least most of the Encyclopedia volumes are before us.

This much, however, we can now say with confidence, that if the work is completed with the same care and thoroughness that are shown in the first two volumes, it will be of far more value as a reference work, and more generally consulted by those who have access to it, than any other ten volumes relating to ophthalmology that have thus far appeared in any language. Of the longer articles in this volume, the most notable are those on Bacteriology of the Eye, 100 pages, Blepharoplasty, 70 pages, and Blindness, 100 pages. Each of these is divided under many headings, preserving the ready accessibility of the matter for reference, which must be recognized as a most valuable characteristic of this work.

Torok, E., and Grout, G. H., New York. **Surgery of the Eye;** A Handbook for Students and Practitioners. 8vo. 507 pages, 509 illus-

trations. 2 colored plates. Philadelphia and New York, Lea and Febiger.

This book is notable for the number and excellence of its illustrations. Of these, some show instruments, and many are half-tones that illustrate the general relations of patient, surgeon, and assistants. But the majority are diagrams which serve to explain the exact steps of each operation better than would a large amount of text. In the selection of operations to be described the book reflects generally the recent literature of ophthalmology. In many instances the descriptions of the original proposers of the operations have been closely followed, and sometimes passages are transferred in quotation marks. The work of the printers has been admirably done; paper and press-work are all that could be desired.

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